

Claim 1. A seal assembly for a rotating shaft, said seal assembly comprising:

 a seal element,
 said seal element having an aperture extending therethrough,
 said seal element having means for securing said seal element to an external portion of a rotating shaft,
 said means being formed in said aperture extending through said seal element.

Claim 2. The seal assembly as claimed in claim 1, wherein said aperture extends horizontally through said seal element.

Claim 3. The seal assembly as claimed in claim 1, wherein said means comprises a plurality of lands extending around said aperture.

Claim 4. The seal assembly as claimed in claim 1, wherein there are grooves extending between said lands.

Claim 5. The seal assembly as claimed in claim 4, wherein said grooves form passageways between said lands.

Claim 6. The seal assembly as claimed in claim 5, wherein said passageways are non-linear.

Claim 7. The seal assembly as claimed in claim 5, wherein said passageways are serpentine.

Claim 8. The seal assembly as claimed in claim 1, wherein said seal system has means for compressing said seal element around said rotating shaft.

Claim 9. The seal assembly as claimed in claim 8, wherein said means for compressing said seal element around said rotating shaft comprises a body block,

said body block having an aperture therein,
a rotator cup positioned in said aperture in said body block, and
said rotator cup engages an external surface of said seal element,
and

means for compressing said rotator cup against said seal element,
which in turn compresses said seal element.

Claim 10. The seal assembly as claimed in claim 9, wherein said means for compressing said rotator cup against said seal element comprises at least one plate.

Claim 11. The seal assembly as claimed in claim 10, wherein said at least one plate is secured to said body block and engages said rotator cup.

Claim 12. The seal assembly as claimed in claim 9, wherein said body block has means for flushing an area around said seal element.

Claim 13. The seal assembly as claimed in claim 12, wherein said means for flushing an area around said seal element comprises a passageway extending from an exterior portion of said body block.
